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	Application No.	Applicant(s)	
Notice of Allowability	10/760,400	KIM, SO-YOUNG	
	Examiner	Art Unit	
	Jean B Jeanglaude	2819	
The MAILING DATE of this communication ap All claims being allowable, PROSECUTION ON THE MERITS herewith (or previously mailed), a Notice of Allowance (PTOL-8 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT of the Office or upon petition by the applicant. See 37 CFR 1.3	IS (OR REMAINS) CLOSED in 85) or other appropriate communation of RIGHTS. This application is su	this application. If not included nication will be mailed in due course.	
1. X This communication is responsive to <u>1-21-04</u> .			
2. ☑ The allowed claim(s) is/are <u>1-19</u> .			
3. $igotimes$ The drawings filed on 21 January 2004 are accepted by	the Examiner.		
4. Acknowledgment is made of a claim for foreign priority a) All b) Some* c) None of the: 1. Certified copies of the priority documents had 2. Certified copies of the priority documents had 3. Copies of the certified copies of the priority International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DAT noted below. Failure to timely comply will result in ABANDOI THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. A SUBSTITUTE OATH OR DECLARATION must be sult INFORMAL PATENT APPLICATION (PTO-152) which go including changes required by the Notice of Draftsper (a) including changes required by the attached Examine Paper No./Mail Date [b) including changes required by the attached Examine Paper No./Mail Date Identifying indicia such as the application number (see 37 CFF each sheet. Replacement sheet(s) should be labeled as such in the department of the priority documents and the department of the depart	ave been received. ave been received in Application documents have been received E" of this communication to file a NMENT of this application. bmitted. Note the attached EXAL gives reason(s) why the oath or a nust be submitted. erson's Patent Drawing Review er's Amendment / Comment or in the header according to 37 CFR posit of BIOLOGICAL MATE	No in this national stage application from this national stage application from a reply complying with the requirement of the claration is deficient. (PTO-948) attached the Office action of the drawings in the front (not the back) of 1.121(d). RIAL must be submitted. Note the	nts OF
Attachment(s) 1. \(\text{\text{Notice}} \) Notice of References Cited (PTO-892) 2. \(\text{\text{Notice}} \) Notice of Draftperson's Patent Drawing Review (PTO-948) 3. \(\text{\text{Information Disclosure Statements (PTO-1449 or PTO/SE Paper No./Mail Date 4. \(\text{\text{\text{Examiner's Comment Regarding Requirement for Deposition}} \)	B) 6. ☐ Interview Sur Paper No./N B/08), 7. ☐ Examiner's A	rmal Patent Application (PTO-152) nmary (PTO-413), lail Date mendment/Comment tatement of Reasons for Allowance	
of Biological Material	9. Other		
		Jean Bruner Jeans Jean Bruner Jeanglaude Primary Examiner	Coudi

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Reasons For Allowance

Claims 1 – 19 are allowable.

The following is an examiner's statement of reasons for allowance: in combination with other limitations of the claims the prior arts made of record fail to suggest a coding data size training apparatus and method that comprise a neural network training unit which inputs the training data to an input layer of a neural network, and inputs the size of the training coding data to an output layer of the neural network so that the neural network is trained. Also, in combination with other limitations of the claims the prior arts made of record fail to suggest a coding data size selection apparatus and method that comprise a coding data estimation size receiving unit which inputs predetermined data to a neural network whose training is finished, and receives an estimation size of coding data corresponding to the predetermined data from the neural network. Moreover, in combination with other limitations of the claims the prior arts made of record fail to suggest a parallel variable length coding bitstream length training apparatus and method comprising a parallel neural network training unit which inputs the training quantization DCT coefficient block to input layers of a predetermined number of neural networks arranged in parallel, and inputs the length of the training bitstream to output layers of the predetermined number of neural networks so that the predetermined number of neural networks are trained. Furthermore, in combination with other limitations of the claims the prior arts made of record fail to suggest a video data compression method that inputs the generated quantization DCT coefficient block to a neural network whose training is finished, receiving an estimation length of a bitstream corresponding to the quantization DCT coefficient block from the neural network, and receiving a user selection about the received estimation length; and if the estimation length is selected by the user, generating a bitstream by variable length coding a quantization DCT coefficient block corresponding to the selected estimation length.

2. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

- 3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
- 4. Spirkovska et al. (US Patent Number 5,333,210) discloses a method and system for pattern analysis using a coarse-coded neural network.
- 5. Austvold et al. (US patent Number 5,546,505) discloses a program product for facilitating use of a neural network.
- 6. Nussbaum (US Patent Number 5,749,066) discloses a method and apparatus for developing a neural network for phoneme recognition.
- 7. Moses et al. (US patent Number 6,035,177) discloses a simultaneous transmission of ancillary and audio signals by means of perceptual coding.
- 8. Suarez et al. (US patent Number 6,128,346) discloses a method and apparatus for quantizing a signal in a digital system.

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9. Vetro et al. (US Patent Number 6,493,386) discloses an object based bitstream

transcoder.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Jean B Jeanglaude whose telephone number is 571-

272-1804. The examiner can normally be reached on Monday - Friday 7:30 A. M. - 5:00

P.M..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Michael Tokar can be reached on 571-272-1812. The fax phone number for

the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

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you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

Han (Suner Handlande)
Jean Bruner Jeanglaude

Primary Examiner

December 14, 2004